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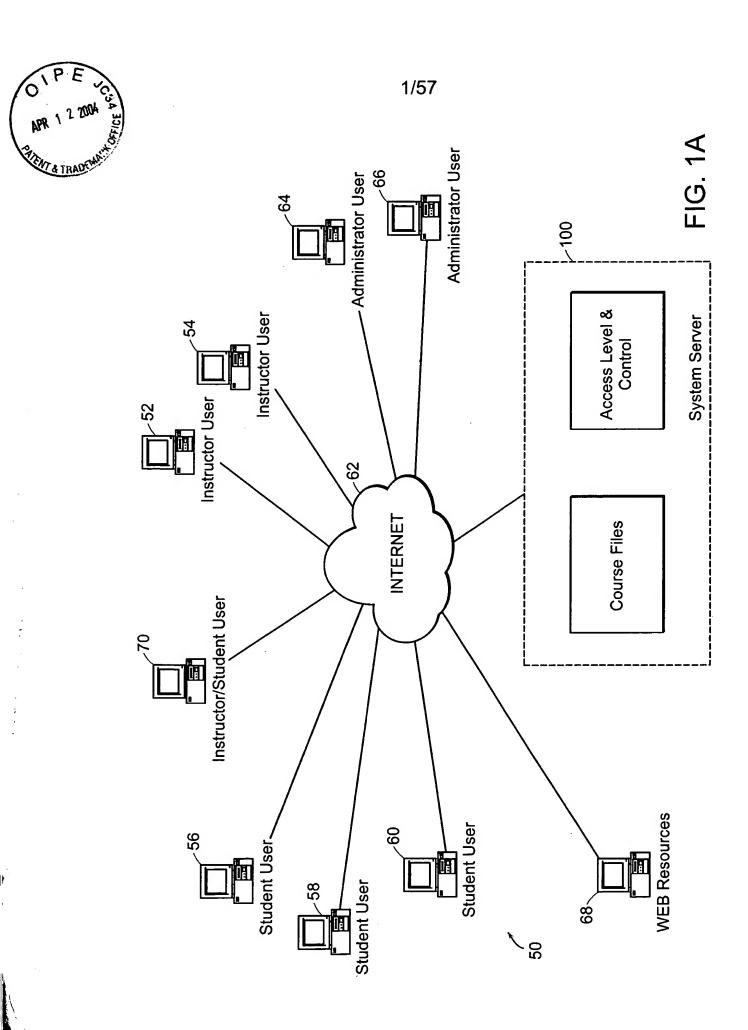
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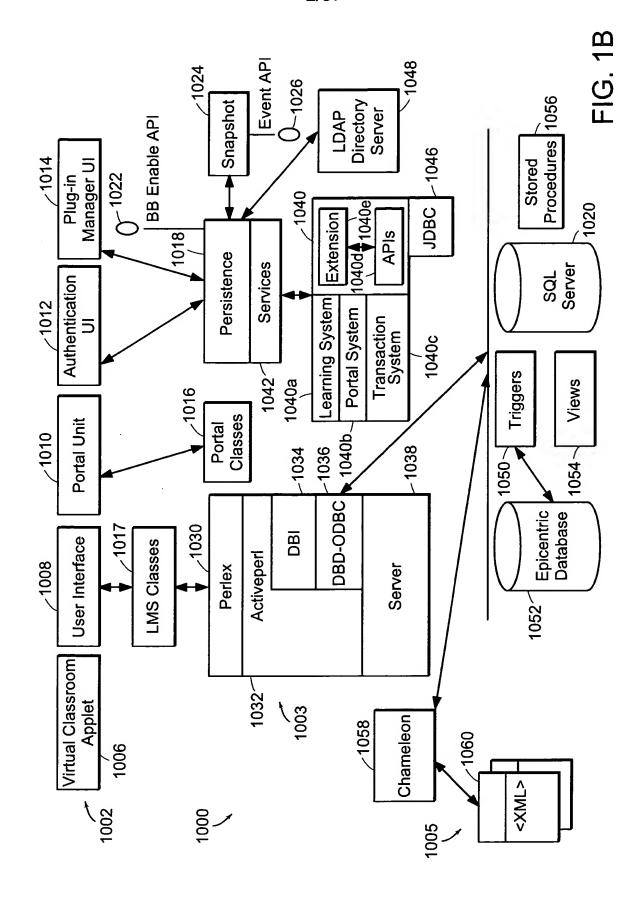
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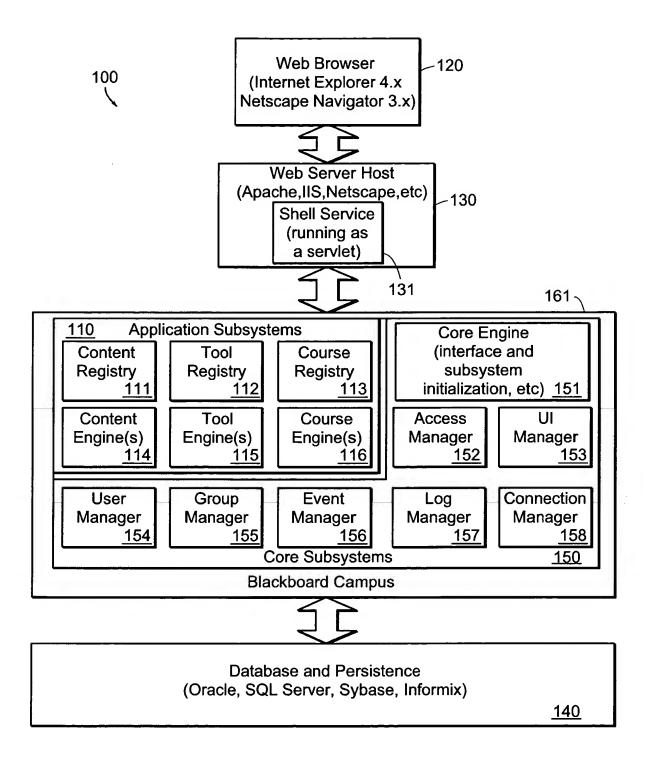
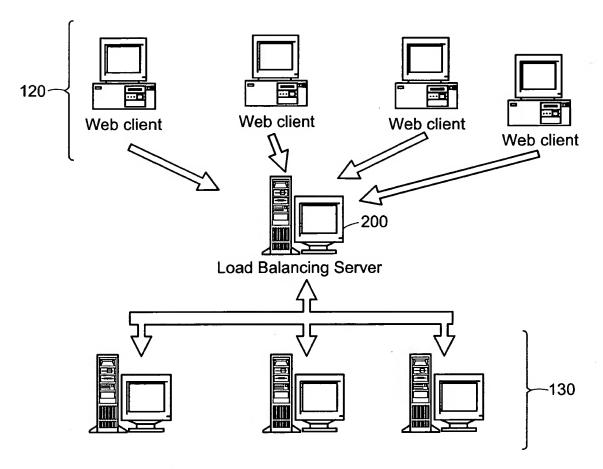


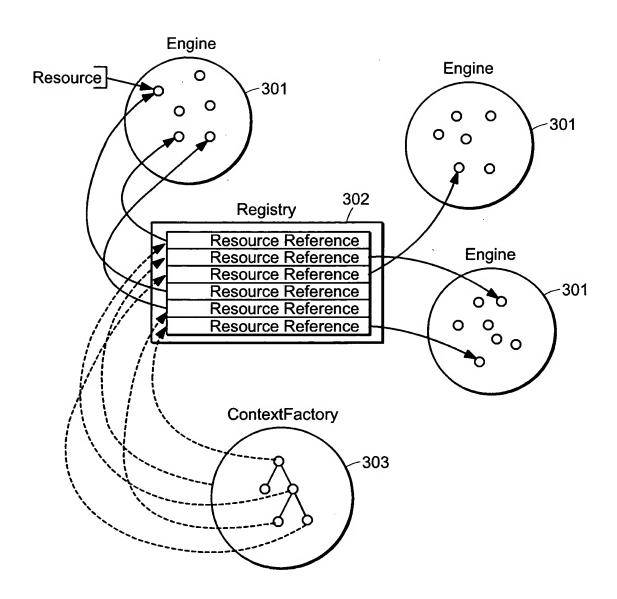
FIG. 1C



Machine Scalability Using Load Balancing

FIG. 2

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Engine/Registry Model

FIG. 3

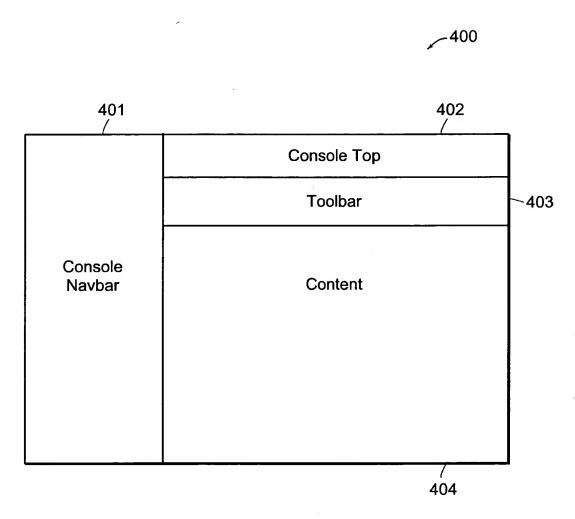


FIG. 4

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FIG. 5

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FIG. 6

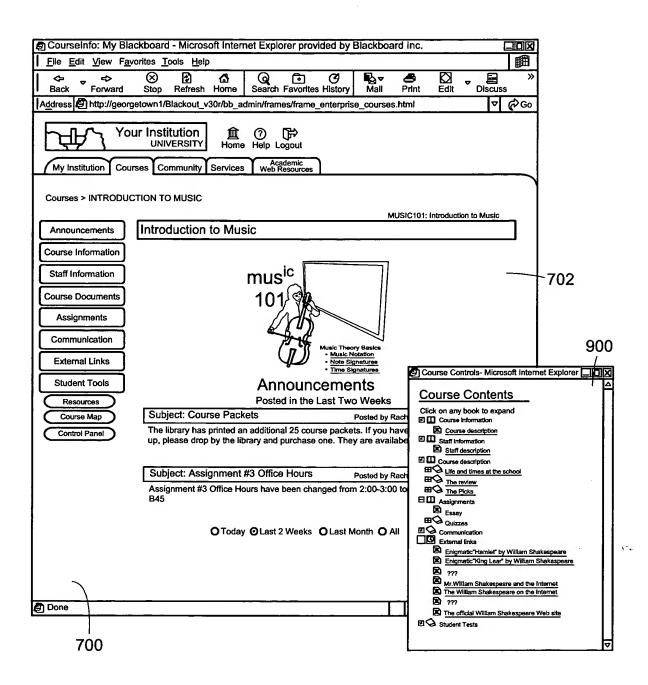


FIG. 7

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FIG. 8

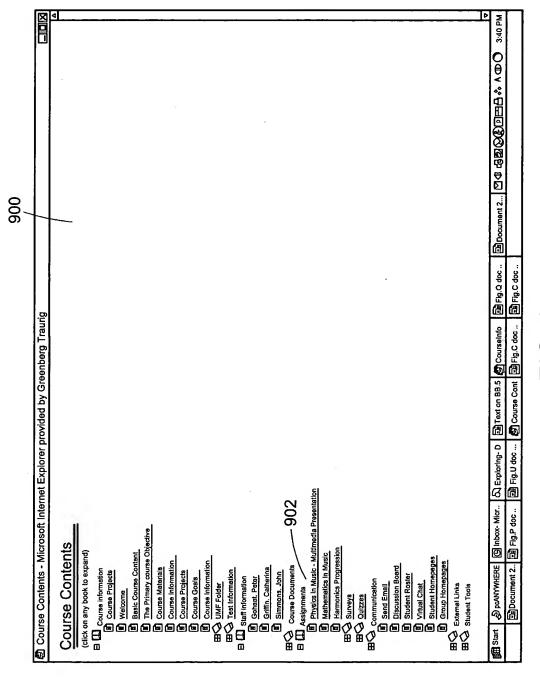


FIG. 9

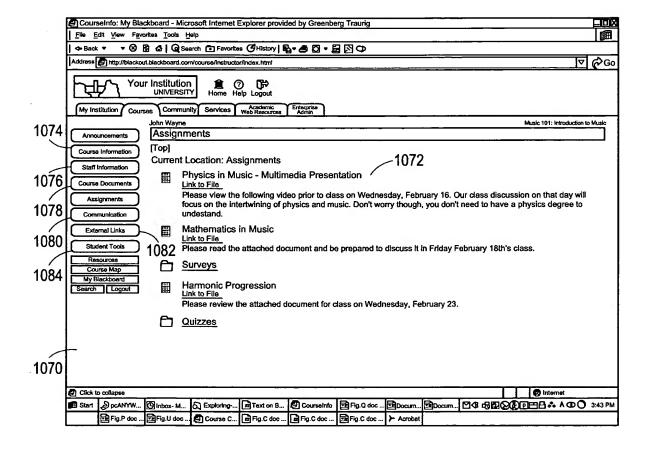


FIG. 10

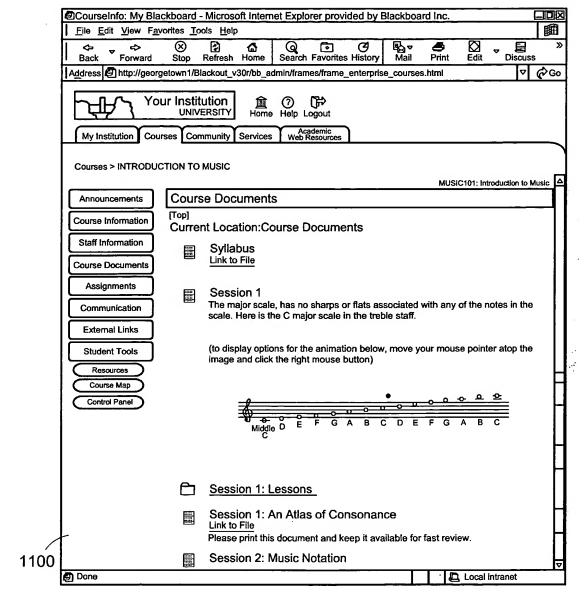


FIG. 11

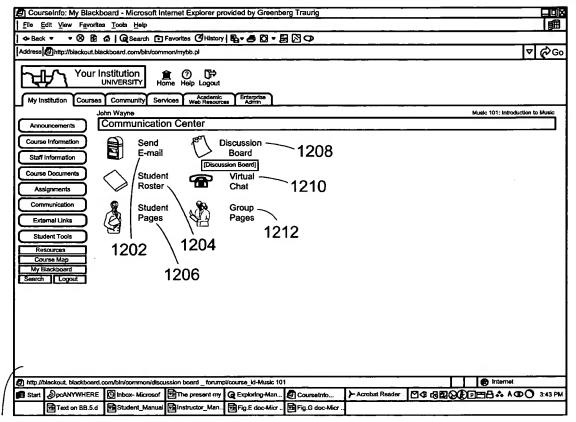


FIG. 12

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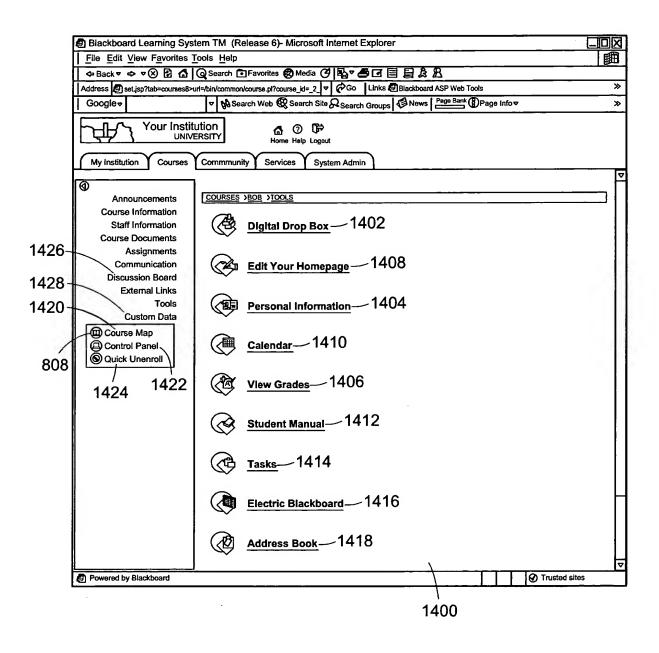


FIG. 14

Student Tools John Wayne

Music 101: Introduction to Music

Student Drop Box

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

71508 Current Files in your DropBox

Note: If you want to save a file, right click on the Link Name and choose Save Link As Status none File Size none **Link Name** none -1510 [Remove Files] ~ File Name none



Click the Browse button to select the file to attach from your computer.

Be sure to specify a linkname for your file,

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(Example: Homework One, Assignment One)

1506 Send File to Instructor

Browse...

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FIG. 15

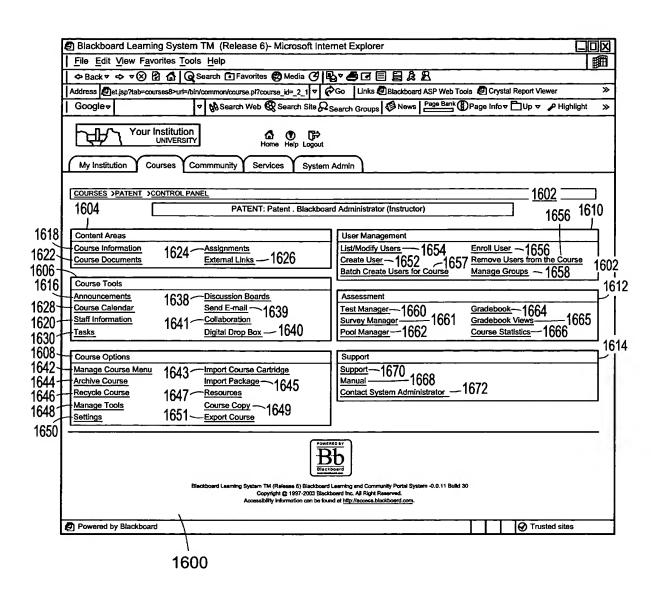


FIG. 16

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	Permanent: Final Exam has Moved!!!! Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7 pm. Woodfy) (R Posted by Ti	nothy Chi
	Wednesday, Mar 15,2000: New Floods Threaten Mozambique Two days of heavy rain have discrupted the distribution of food to flooded communities in central Mozambique. The main road from the port of Posted by Dr Beira to the small town of Save has again been cut. Helicopters were called in on Tuesday to rescue 30 people and sacks of food from vehicles trapped on the road by flood water.	move) Kargatis
	Wednesday, Mar 15,2000: NCAA: Michigan St. Arizona in First-Day Action Big Ten Conference champion Michigan State, a Final Four team last season, and Pac-10 winner Arizona are the leading seeds in action when Posted by Dr the NCAA Tournament- and March Madness- begins Thursday. Michigan State (26-7) is the top team in the Midwest, a region which features Big 12 champion lows State, Atlantic Coast Conference runner-up Maryland, Big East regular season co-champion Syracuse, and traditional powers Kentucky and UCLA Arizona(26-6) earnet the top seed in the West region after completing a sweep of Pac-10 co-champion Stanford	move) Kargatis
	last week. Big East tournament winner St. John's, Oklahoma, Louisiana State, Texas and Purdue are the top teams in the region. Michigan	₹
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FIG. 17

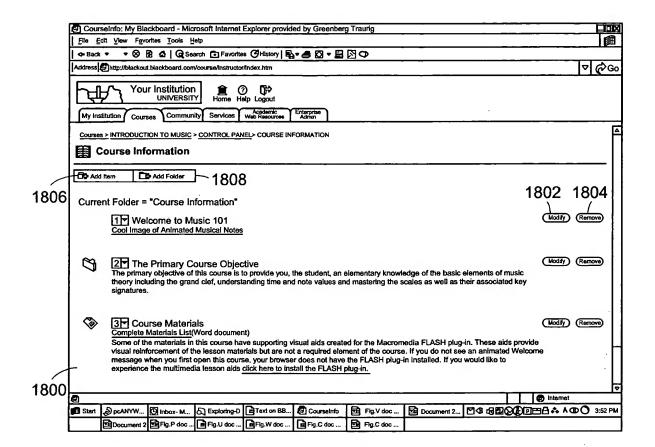


FIG. 18

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FIG. 20

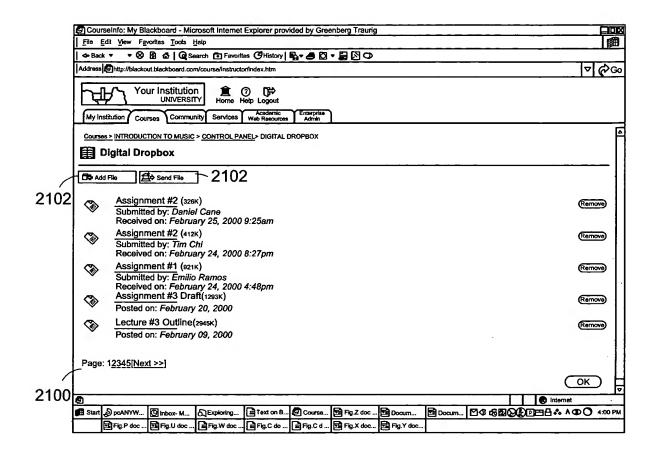


FIG. 21

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FIG. 22

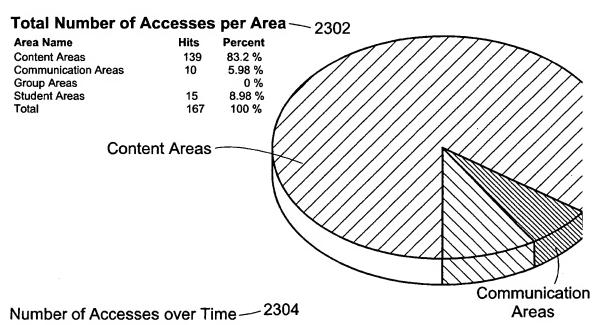
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Course Statistics

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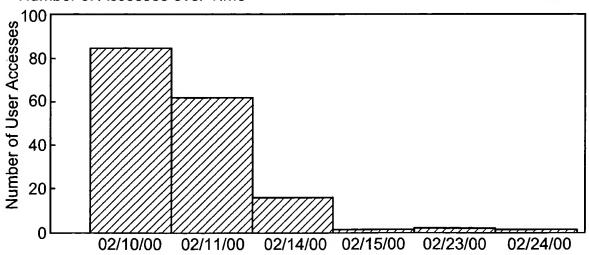
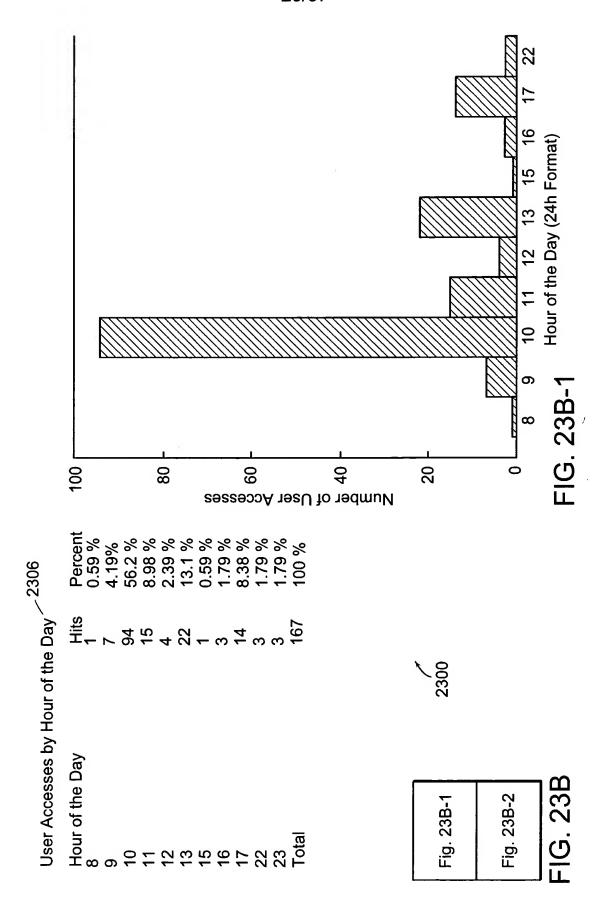


FIG. 23A



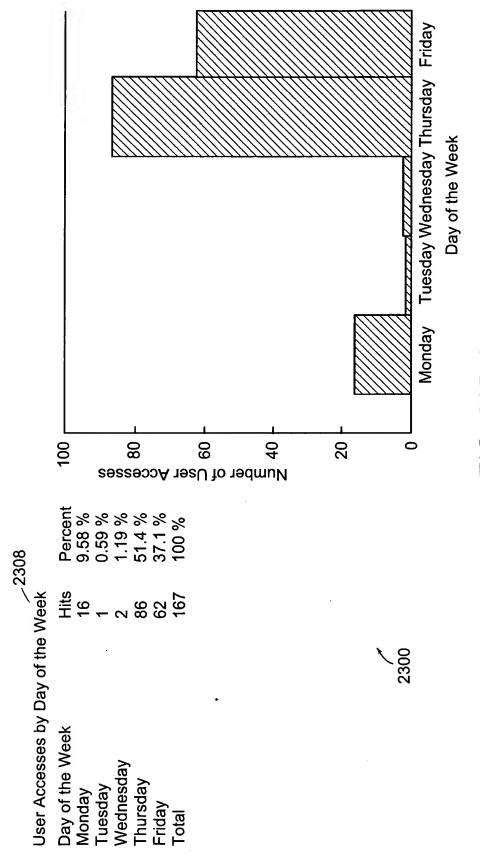


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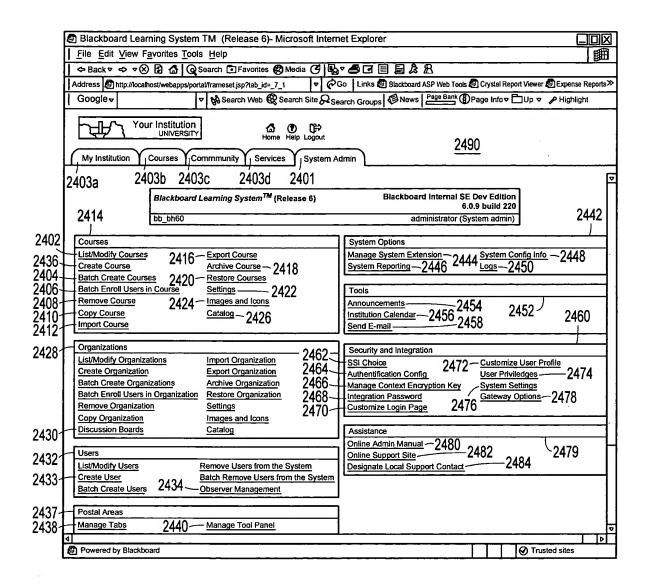
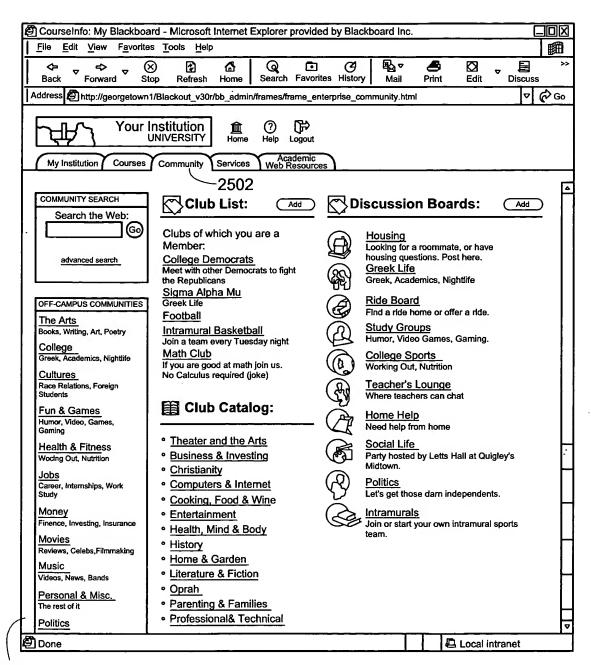


FIG. 24



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FIG. 25

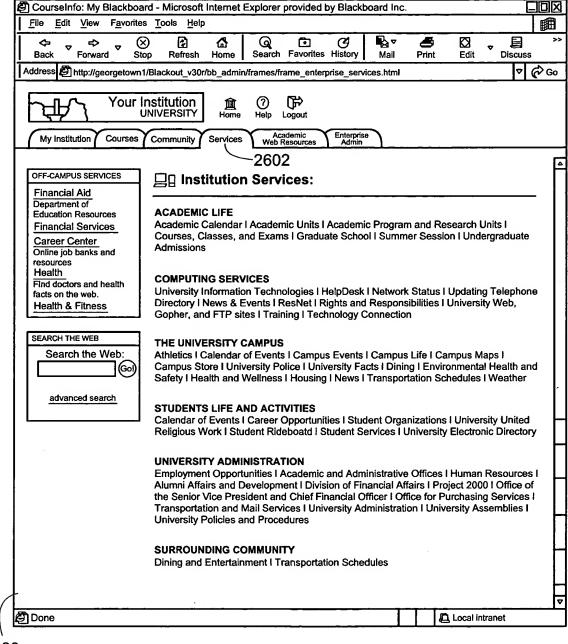


FIG. 26

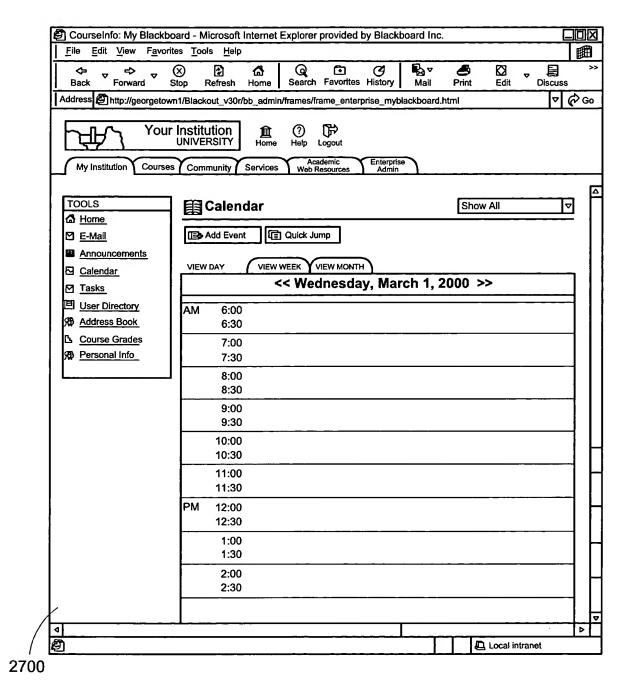


FIG. 27

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FIG. 28

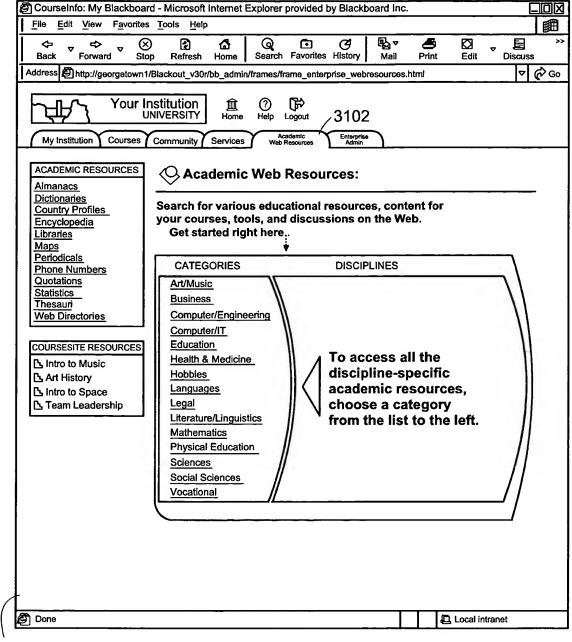
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FIG. 30A

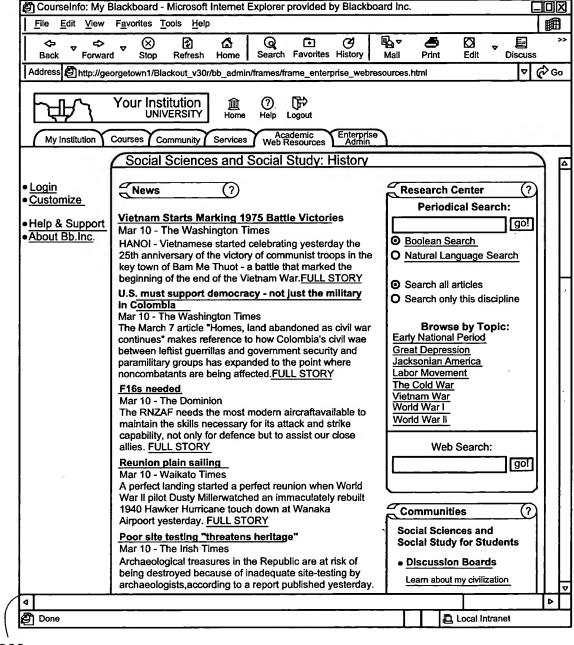
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FIG. 30B



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FIG. 31



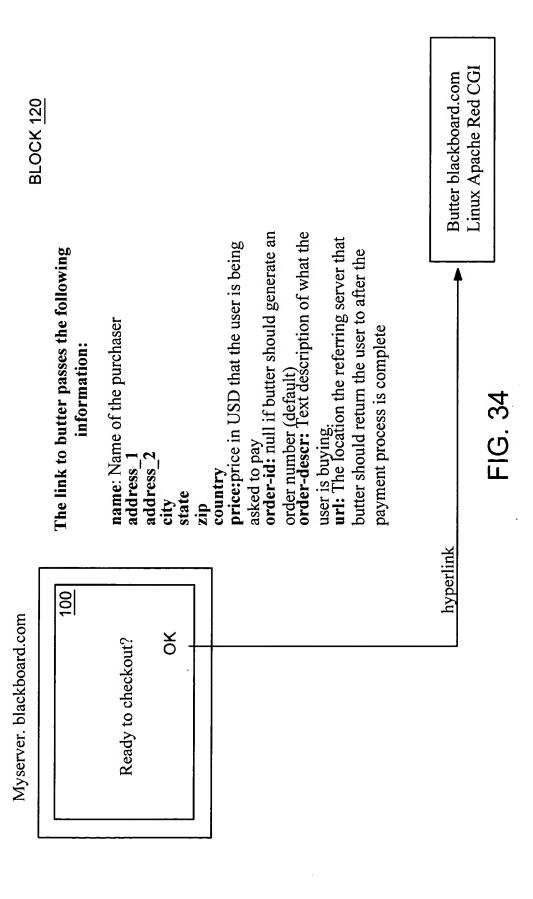
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FIG. 33A

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FIG. 33B



Linking to the E-Commerce Server

First E-Commerce Screen Display

Butter.blackboard.com

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Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

Whatever user info is available is populated from the data passed from the previous page.

The unique order number displayed is dynamically generated by the server.

The Chosen services and price displayed are passed in from the previous screen.

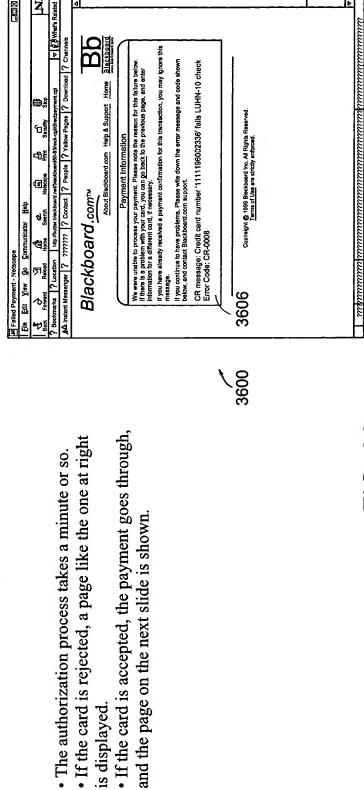
The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

FIG. 35

3500

cybercash.com Port 80 Socket Authorization/Decline Port 80 Socket Request **Authorization Process** -3602 Blackboard.com

-3604



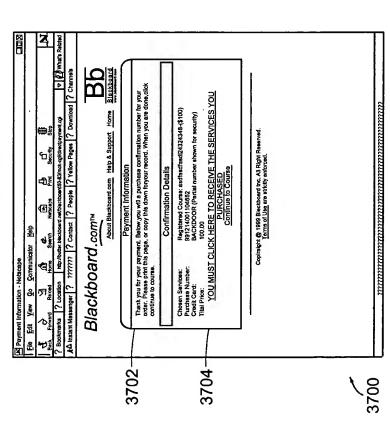
and the page on the next slide is shown.

is displayed.

FIG. 36

Second E-Commerce Screen Display

Butter.blackboard.com



Payment is authorized and queued at Cybercash, Inc for processing.

The payment will go through and appear in Blackboard's Cybercash account within 12 hours.

There is no way that the user can back out at this point without Blackboard issuing a manual refund.

No services are provided yet. The user must follow the link at the bottom of the page, or he will receive nothing for his money.

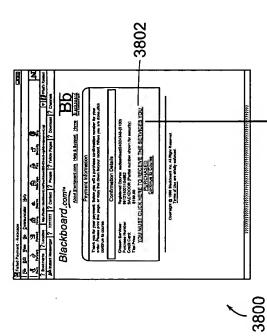
All links on this page are disabled except the one that says :YOU MUST CLICK HERE". This prevents users from failing to get their orders filled.

A authorization code is calculated by the script as a secure hash of the purchase price, the order id, and a secret number.

FIG. 37

Returning to the Originating Server

Butter.blackboard.com



• The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.

• The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.

• The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.

FIG. 38

myserver.blackboard.com

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FIG. 39

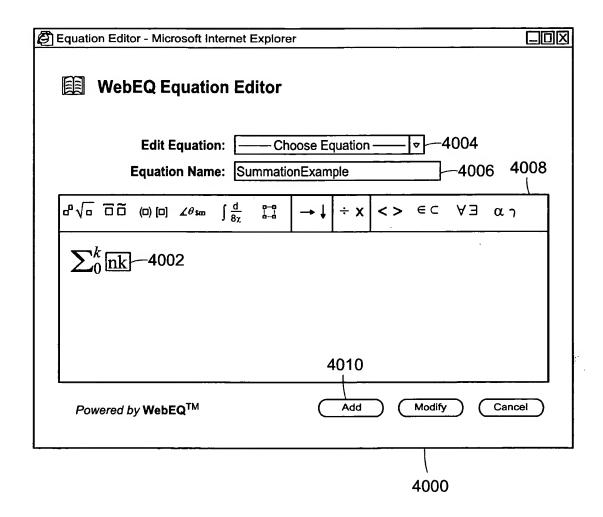


FIG. 40

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RENDERED DATA

FIG. 41

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FIG. 42

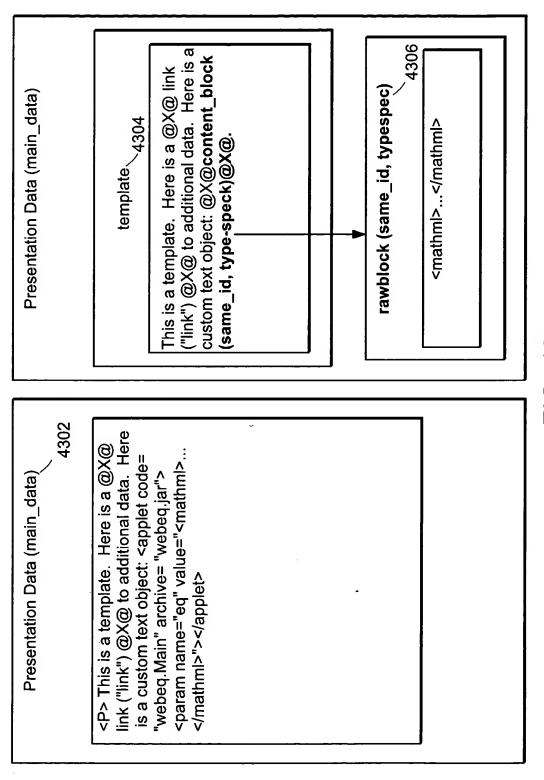


FIG. 43

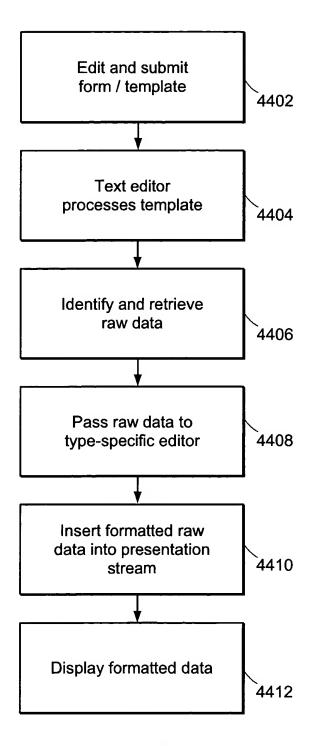
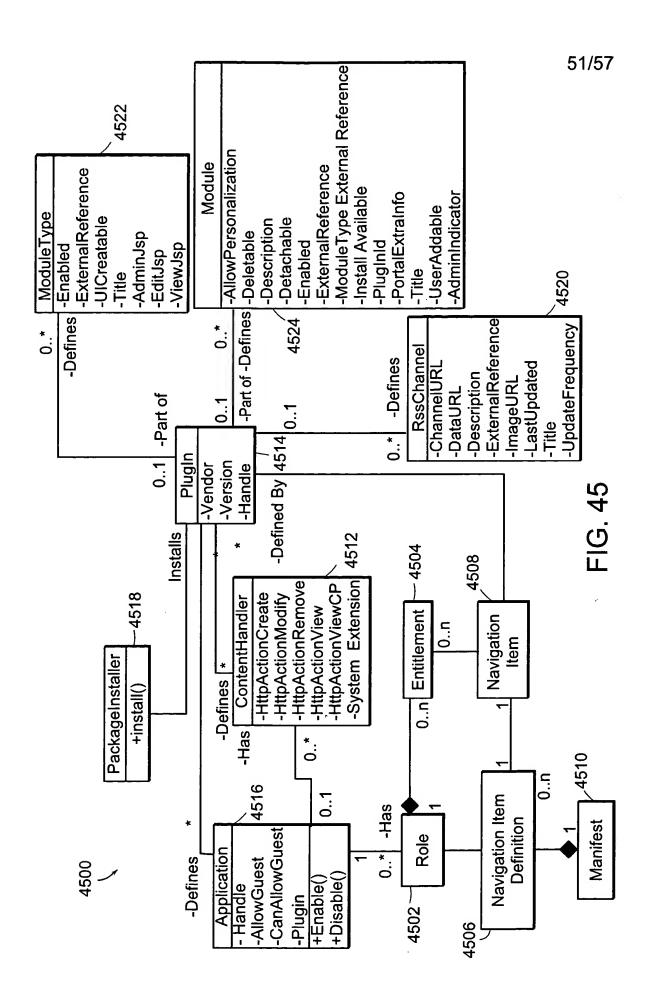


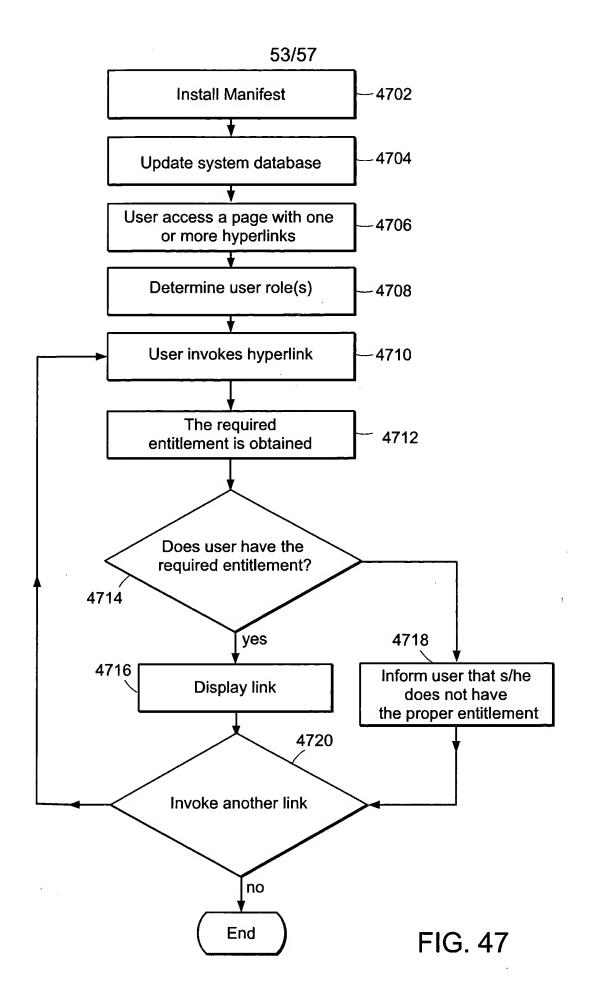
FIG. 44



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Usei	r Name		Role(s)	Entitlement
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Jones	Allan	S.	A,I	Course, modify calendar, modify
Smith	Jane	T.	С,Т	Course, modify calendar, modify
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FIG. 46



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GoogleModule	Google	1.0.0	Available 🔻	View Components		Remove				
HETemplateModules	Blackboard Inc.	1.0.0	Available 🔻	View Components		Remove				
Maps	Mapquest	1.0.2	Available 🔻	View Components		Remove				
New York Times	New York Times	1.0.0	Available 🔻	View Components		Remove				
Time	Time	1.0.0	Available 🔻	View Components		Remove				
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FIG. 48

Blackboard Learning System TM (Release 6)- Microsoft Internet Explorer	
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FIG. 49

Blackboard Learning System TM (Release 6)- Microsoft Intern	net Explorer								
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Batch Enroll Users In Course Settings	Tools								
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Copy Course Catalog	Institution Calendar	Pluggin Admin Panel Tool							
Import Course									
	Security and Integration								
Organizations	SSI Choice	Customize User Profile							
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Batch Create Organizations Archive organization Batch Enroll Users In Organization Restore Organization	Integration Password	Gateway Options							
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Copy Organization Images and Icons	Assistance								
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FIG. 50

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Astrology	Astrology.com	1.0.1	Available 🔻	View Components		Remove			
CNNModules	CNN	1.0.0	Available 🔻	View Components		Ramove			
GoogleModule	Google	1.0.0	Available =	View Components		Ramove			
HETemplateModules	Blackboard Inc.	1.0.0	Available 🔻	View Components		Remove			
Maps	Mapquest	1.0.2	Available 🔻	View Components		Remove			
New York Times	New York Times	1.0.0	Available 🔻	View Components		Remove			
Time	Time	1.0.0	Available 🔻	View Components		Remove			
Travel	Expedia	1.0.0	Available 🔻	View Components		Remove			
WeatherModule	Weather.com	1.0.0	Available 🔻	View Components		Ramove			
Zap2itModules	Zap2it	1.0.0	Available 🔻	View Components		Remove			
AOI WYIWYG Editor	AOI Systems	2.5.8	Available 🔻	View Components	Properties	Remove			
Blackboard Course creation Wizard	Blackboard Research and Development	1.0.1	Available 🔻	View Components	Properties	Ramove			
Sample Plugin	Sample Plugin Vendor	1.0.1	Inactive 🔻	View Components		Ramove			
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FIG. 51